

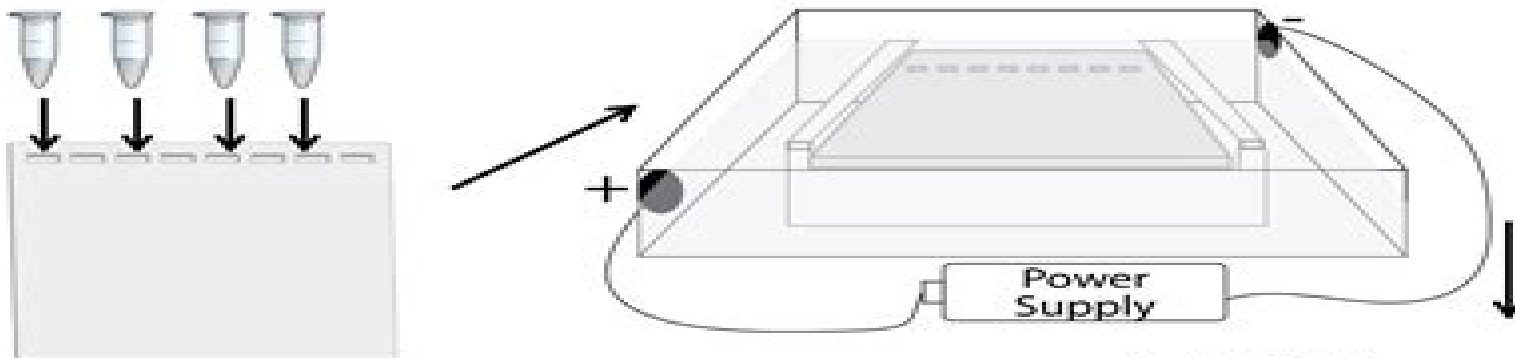
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**Gel Electrophoresis** is useful in identifying the size of an unknown DNA fragment. Scientists compare unknown DNA samples to a control sample called a **marker sample** or a "**ladder**". The ladder sample contains several known lengths of DNA.

In the example below, the ladder contains known fragments of DNA with lengths 100, 300, 500, 800, 1000, and 2000 base pairs long.

Wells/Lanes #	1	3	5	7
Ladder	?	?	?	?

**Gel Electrophoresis Chamber for Approximately 30 Minutes**

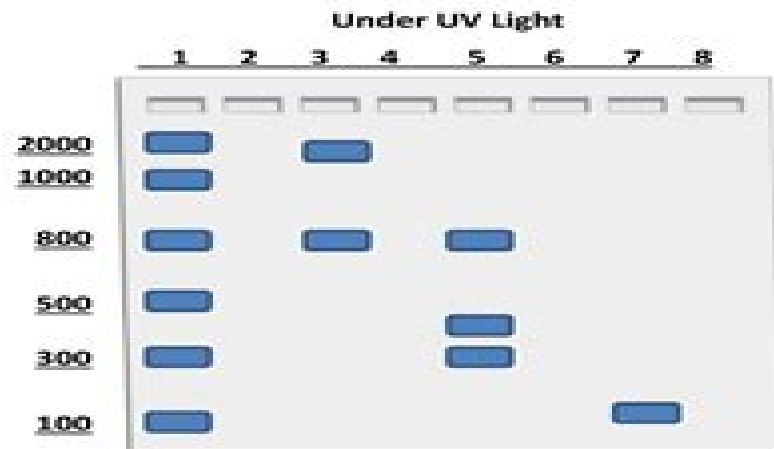


Because we know the ladder's standard fragment size, we can use this to estimate the unknown fragments in lanes 3, 5, and 7.

In Lane 3, there are at least 2 different fragments: one has a length of between 1000 and 2000 bp. One has a length close to 800 bp.

In Lane 5, there are at least 3 different DNA fragments. One is about 800 bp, one is between 300 and 500 (estimate 400), and one is about 300 bp.

In Lane 7, there is at least 1 fragment that is close to 100 base pairs in length.



It is important to note what DNA gel electrophoresis cannot do. When reading a DNA gel's bands, you cannot know if a sample has 2 or more different fragments of the same length. In the gel above, lane 7 might have 1, 2, 3, 4, or many different DNA fragments with different sequences of very similar length (around 100 bp). There is no way to distinguish between different DNA fragments with the same length using just DNA gel electrophoresis.

# Bio Gel Electrophoresis Lab Answer Guide

**Seung-Beom Hong, M. Bazlur  
Rashid, Lory Z. Santiago-Vázquez**



## Bio Gel Electrophoresis Lab Answer Guide:

*Essential Biology Chapter 12* Campbell, Reece, 2003      *Experimental Developmental Biology* Laura R. Keller, John Hyde Evans, Thomas C. S. Keller, 1999 This work is designed for use as a lab manual in college level courses in developmental biology or animal development In each exercise students examine gametes and developing embryos of a single species and also perform several experiments to probe its developmental process      *Methods in Biotechnology* Seung-Beom Hong, M. Bazlur Rashid, Lory Z. Santiago-Vázquez, 2016-05-12 As rapid advances in biotechnology occur there is a need for a pedagogical tool to aid current students and laboratory professionals in biotechnological methods *Methods in Biotechnology* is an invaluable resource for those students and professionals *Methods in Biotechnology* engages the reader by implementing an active learning approach provided advanced study questions as well as pre and post lab questions for each lab protocol These self directed study sections encourage the reader to not just perform experiments but to engage with the material on a higher level utilizing critical thinking and troubleshooting skills This text is broken into three sections based on level *Methods in Biotechnology* Advanced *Methods in Biotechnology* I and Advanced *Methods in Biotechnology* II Each section contains 14 22 lab exercises with instructor notes in appendices as well as an answer guide as a part of the book companion site This text will be an excellent resource for both students and laboratory professionals in the biotechnology field

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parasites and viruses that enter into a symbiotic relationship with the cells of the host. They protect the host against pathogens, shape and strengthen the intestinal epithelium, and influence the immune system. The bacterial metabolites can enter the host bloodstream and influence other parts of the body through various axes in humans and animals, such as gut microbiota, brain, gut, microbiota, skin, gut, vagina, gut, liver, gut, bones, etc. However, many aspects of modern lifestyle can cause alterations in the gut microbiota and lead to numerous diseases, including inflammatory bowel disease, diabetes mellitus, obesity, and metabolic syndrome. Probiotics and other beneficial microbes can exert many beneficial effects on their hosts by modulating the gut microbiota. While the term probiotic is reserved only for well-characterized strains with clinically proven health benefits, other beneficial microbes include those responsible for the fermentation of foods, such as yogurt, kefir, kombucha, kimchi, and many others that have been shown to have various health benefits. Many of these beneficial microbes belong to lactic acid bacteria. Lactic acid bacteria (LAB) are Gram-positive, usually non-motile, catalase-negative, aerotolerant rods or cocci with high tolerance to low pH that produce lactic acid by fermentation of carbohydrates. Lactic acid bacteria have many therapeutic and functional properties that are beneficial to human health. This research topic aims to compile articles focusing on new insights into the role of lactic acid bacteria in the regulation of the gut microbiota. The main objectives include understanding how LAB influence gut microbiota composition, identifying bioactive compounds produced by LAB, and their effects, elucidating the molecular mechanisms underlying LAB's impact on immunity, pathogen exclusion, and intestinal barrier function, and exploring potential therapeutic interventions involving LAB. By addressing these questions, the research aims to fill existing gaps in our knowledge and provide a comprehensive understanding of LAB's multifaceted roles in gut health and beyond. To gather further insights into the role of lactic acid bacteria in the regulation of gut microbiota, we welcome articles addressing, but not limited to, the following themes: Influence of lactic acid bacteria on gut microbiota composition; Bioactive compounds produced by lactic acid bacteria and their influence on gut microbiota composition; Molecular mechanisms underlying the effects of lactic acid bacteria and their metabolites on immunity, pathogen exclusion, and intestinal barrier function related to the gut microbiota; and beyond. Potential therapeutic interventions with lactic acid bacteria and their metabolites related to the gut microbiota and beyond.

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    - Chapter 3: Bio Gel Electrophoresis Lab Answer Guide in Everyday Life
    - Chapter 4: Bio Gel Electrophoresis Lab Answer Guide in Specific Contexts
    - Chapter 5: Conclusion
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